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Sequence Listing was accepted.

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Reviewer: Keisha Douglas

Timestamp: Thu Aug 30 14:10:38 EDT 2007

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Application No: 10784300 Version No: 3.0

Input Set:

Output Set:

Started: 2007-08-20 07:36:47.213
Finished: 2007-08-20 07:36:48.193
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 980 ms
Total Warnings: 5
Total Errors: 0
No. of SeqIDs Defined: 11
Actual SeqID Count: 11

Error code	Error Description
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W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)

SEQUENCE LISTING

<110> BLACK, Roy A.
 PAXTON, Raymond J.
 BODE, Wolfram
 NASKOS, Klaus
 FERNANDEZ-CATALAN, Carlos
 CHEN, James Ming
 LEVIN, Jeremy Ian

<120> Crystalline TNF-alpha-converting enzyme
 and uses thereof

<130> 16163-039004

<140> 10784300

<141> 2004-02-24

<150> US 09/244,984

<151> 1999-02-04

<150> US 60/073,709

<151> 1998-02-04

<150> US 60/135,499

<151> 1998-03-30

<150> US 60/117,476

<151> 1999-01-27

<160> 11

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> Illustrative peptide

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<213> Artificial Sequence

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<400> 2

Gly Ser His His His His His His

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<211> 11

<212> PRT

<213> Artificial Sequence

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<223> Consensus motif

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<223> Xaa = any amino acid

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<210> 4

<211> 203

<212> PRT

<213> Crotalus adamanteus

<400> 4

Glu Gln Asn Leu Pro Gln Arg Tyr Ile Glu Leu Val Val Val Ala Asp

1 5 10 15

Arg Arg Val Phe Met Lys Tyr Asn Ser Asp Leu Asn Ile Ile Arg Thr

20 25 30

Arg Val His Glu Ile Val Asn Ile Ile Asn Glu Phe Tyr Arg Ser Leu

35 40 45

Asn Ile Arg Val Ser Leu Thr Asp Leu Glu Ile Trp Ser Gly Gln Asp

50 55 60

Phe Ile Thr Ile Gln Ser Ser Ser Ser Asn Thr Leu Asn Ser Phe Gly

65 70 75 80

Glu Trp Arg Glu Arg Val Leu Leu Thr Arg Lys Arg His Asp Asn Ala

85 90 95

Gln Leu Leu Thr Ala Ile Asn Phe Glu Gly Lys Ile Ile Gly Lys Ala

100 105 110

Tyr Thr Ser Ser Met Cys Asn Pro Arg Ser Ser Val Gly Ile Val Lys

115 120 125

Asp His Ser Pro Ile Asn Leu Leu Val Ala Val Thr Met Ala His Glu

130 135 140

Leu Gly His Asn Leu Gly Met Glu His Asp Gly Lys Asp Cys Leu Arg

145 150 155 160

Gly Ala Ser Leu Cys Ile Met Arg Pro Gly Leu Thr Pro Gly Arg Ser

165 170 175

Tyr Glu Phe Ser Asp Asp Ser Met Gly Tyr Tyr Gln Lys Phe Leu Asn

180 185 190

Gln Tyr Lys Pro Gln Cys Ile Leu Asn Lys Pro

195 200

<210> 5
 <211> 287
 <212> PRT
 <213> Homo sapiens

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 20 25 30
 Arg Tyr Met Gly Arg Gly Glu Glu Ser Thr Thr Thr Asn Tyr Leu Ile
 35 40 45
 Glu Leu Ile Asp Arg Val Asp Asp Ile Tyr Arg Asn Thr Ser Trp Asp
 50 55 60
 Asn Ala Gly Phe Lys Gly Tyr Gly Ile Gln Ile Glu Gln Ile Arg Ile
 65 70 75 80
 Leu Lys Ser Pro Gln Glu Val Lys Pro Gly Glu Lys His Tyr Asn Met
 85 90 95
 Ala Lys Ser Tyr Pro Asn Glu Glu Lys Asp Ala Trp Asp Val Lys Met
 100 105 110
 Leu Leu Glu Gln Phe Ser Phe Asp Ile Ala Glu Glu Ala Ser Lys Val
 115 120 125
 Cys Leu Ala His Leu Phe Thr Tyr Gln Asp Phe Asp Met Gly Thr Leu
 130 135 140
 Gly Leu Ala Tyr Val Gly Ser Pro Arg Ala Asn Ser His Gly Gly Val
 145 150 155 160
 Cys Pro Lys Ser Gly Ser Ser Gly Gly Ile Cys Glu Lys Ala Tyr Tyr
 165 170 175
 Ser Pro Val Gly Lys Lys Asn Ser Lys Leu Tyr Ser Asp Gly Lys Lys
 180 185 190
 Lys Glu Ala Asp Leu Val Thr Thr His Glu Leu Gly His Asn Phe Gly
 195 200 205
 Ala Glu His Asp Pro Asp Gly Leu Ala Glu Cys Ala Pro Asn Glu Asp
 210 215 220
 Gln Gly Gly Lys Tyr Val Met Tyr Pro Ile Ala Val Ser Gly Asp His
 225 230 235 240
 Glu Asn Asn Lys Met Phe Ser Asn Cys Ser Lys Gln Ser Ile Tyr Lys
 245 250 255
 Thr Ile Glu Ser Lys Ala Gln Glu Cys Phe Gln Glu Arg Ser Asn Lys
 260 265 270
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 275 280 285

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 <212> PRT
 <213> Homo sapiens

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 20 25 30
 His Leu Phe Phe Lys Tyr Tyr Gly Thr Arg Glu Ala Val Ile Ala Gln
 35 40 45

Ile	Ser	Ser	His	Val	Lys	Ala	Ile	Asp	Thr	Ile	Tyr	Gln	Thr	Thr	Asp	
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Phe	Ser	Gly	Ile	Arg	Asn	Ile	Ser	Phe	Met	Val	Lys	Arg	Ile	Arg	Ile	
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Asn	Thr	Thr	Ala	Asp	Glu	Lys	Asp	Pro	Thr	Asn	Pro	Phe	Arg	Phe	Pro	
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Asn	Ile	Ser	Val	Glu	Lys	Phe	Leu	Glu	Leu	Asn	Ser	Glu	Gln	Asn	His	
			100					105					110			
Asp	Asp	Tyr	Cys	Leu	Ala	Tyr	Val	Phe	Thr	Asp	Arg	Asp	Phe	Asp	Asp	
		115					120					125				
Gly	Val	Leu	Gly	Leu	Ala	Trp	Val	Gly	Ala	Pro	Ile	Tyr	Leu	Asn	Ser	
		130					135				140					
Gly	Leu	Thr	Ser	Thr	Ser	Leu	Asn	Thr	Gly	Ile	Ile	Thr	Val	Lys	Asn	
145					150					155					160	
Tyr	Gly	Lys	Thr	Ile	Leu	Thr	Lys	Gln	Asn	Tyr	Gly	Ser	His	Val	Pro	
				165					170					175		
Pro	Lys	Val	Ser	His	Ile	Thr	Phe	Ala	His	Glu	Val	Gly	His	Asn	Phe	
			180					185					190			
Gly	Ser	Pro	His	Asp	Ser	Gly	Thr	Glu	Cys	Thr	Pro	Gly	Glu	Ser	Lys	
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Asn	Leu	Gly	Gln	Lys	Glu	Asn	Gly	Asn	Tyr	Ile	Met	Tyr	Ala	Arg	Ala	
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Thr	Ser	Gly	Asp	Lys	Leu	Asn	Asn	Asn	Lys	Phe	Ser	Leu	Cys	Ser	Ile	
225					230					235					240	
Arg	Asn	Ile	Ser	Gln	Val	Leu	Glu	Lys	Lys	Arg	Asn	Asn	Cys	Phe	Val	
				245					250					255		
Glu	Ser	Gly	Gln	Pro	Ile	Cys	Gly	Asn	Gly	Met	Val	Glu	Gln	Gly	Glu	
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Glu	Cys	Asp	Cys													
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<210> 7

<211> 824

<212> PRT

<213> Homo sapiens

<400> 7

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Glu	Lys	Leu	Asp	Ser	Leu	Leu	Ser	Asp	Tyr	Asp	Ile	Leu	Ser	Leu	Ser	
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Asn	Ile	Gln	Gln	His	Ser	Val	Arg	Lys	Arg	Asp	Leu	Gln	Thr	Ser	Thr	
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His	Val	Glu	Thr	Leu	Leu	Thr	Phe	Ser	Ala	Leu	Lys	Arg	His	Phe	Lys	
65					70					75					80	
Leu	Tyr	Leu	Thr	Ser	Ser	Thr	Glu	Arg	Phe	Ser	Gln	Asn	Phe	Lys	Val	
				85					90					95		
Val	Val	Val	Asp	Gly	Lys	Asn	Glu	Ser	Glu	Tyr	Thr	Ala	Lys	Trp	Gln	
			100					105					110			
Asp	Phe	Phe	Thr	Gly	His	Val	Val	Gly	Glu	Pro	Asp	Ser	Arg	Val	Leu	
		115					120					125				
Ala	His	Ile	Arg	Asp	Asp	Asp	Val	Ile	Ile	Arg	Ile	Asn	Thr	Asp	Gly	
		130					135					140				
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145		150		155		160									
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Arg	Leu	Gln	Ser	Pro	Lys	Val	Cys	Gly	Tyr	Leu	Lys	Val	Asp	Asn	Glu
		180		185		190									
Glu	Leu	Leu	Pro	Lys	Gly	Leu	Val	Asp	Arg	Glu	Pro	Pro	Glu	Glu	Leu
		195		200		205									
Val	His	Arg	Val	Lys	Arg	Arg	Ala	Asp	Pro	Asp	Pro	Met	Lys	Asn	Thr
		210		215		220									
Cys	Lys	Leu	Leu	Val	Val	Ala	Asp	His	Arg	Phe	Tyr	Arg	Tyr	Met	Gly
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		245		250		255									
Arg	Val	Asp	Asp	Ile	Tyr	Arg	Asn	Thr	Ser	Trp	Asp	Asn	Ala	Gly	Phe
		260		265		270									
Lys	Gly	Tyr	Gly	Ile	Gln	Ile	Glu	Gln	Ile	Arg	Ile	Leu	Lys	Ser	Pro
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Gln	Glu	Val	Lys	Pro	Gly	Glu	Lys	His	Tyr	Asn	Met	Ala	Lys	Ser	Tyr
		290		295		300									
Pro	Asn	Glu	Glu	Lys	Asp	Ala	Trp	Asp	Val	Lys	Met	Leu	Leu	Glu	Gln
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Phe	Ser	Phe	Asp	Ile	Ala	Glu	Glu	Ala	Ser	Lys	Val	Cys	Leu	Ala	His
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Leu	Phe	Thr	Tyr	Gln	Asp	Phe	Asp	Met	Gly	Thr	Leu	Gly	Leu	Ala	Tyr
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Val	Gly	Ser	Pro	Arg	Ala	Asn	Ser	His	Gly	Gly	Val	Cys	Pro	Lys	Ala
		355		360		365									
Tyr	Tyr	Ser	Pro	Val	Gly	Lys	Lys	Asn	Ile	Tyr	Leu	Asn	Ser	Gly	Leu
		370		375		380									
Thr	Ser	Thr	Lys	Asn	Tyr	Gly	Lys	Thr	Ile	Leu	Thr	Lys	Glu	Ala	Asp
		385		390		395									
Leu	Val	Thr	Thr	His	Glu	Leu	Gly	His	Asn	Phe	Gly	Ala	Glu	His	Asp
		405		410		415									
Pro	Asp	Gly	Leu	Ala	Glu	Cys	Ala	Pro	Asn	Glu	Asp	Gln	Gly	Gly	Lys
		420		425		430									
Tyr	Val	Met	Tyr	Pro	Ile	Ala	Val	Ser	Gly	Asp	His	Glu	Asn	Asn	Lys
		435		440		445									
Met	Phe	Ser	Asn	Cys	Ser	Lys	Gln	Ser	Ile	Tyr	Lys	Thr	Ile	Glu	Ser
		450		455		460									
Lys	Ala	Gln	Glu	Cys	Phe	Gln	Glu	Arg	Ser	Asn	Lys	Val	Cys	Gly	Asn
		465		470		475									
Ser	Arg	Val	Asp	Glu	Gly	Glu	Glu	Cys	Asp	Pro	Gly	Ile	Met	Tyr	Leu
		485		490		495									
Asn	Asn	Asp	Thr	Cys	Cys	Asn	Ser	Asp	Cys	Thr	Leu	Lys	Glu	Gly	Val
		500		505		510									
Gln	Cys	Ser	Asp	Arg	Asn	Ser	Pro	Cys	Cys	Lys	Asn	Cys	Gln	Phe	Glu
		515		520		525									
Thr	Ala	Gln	Lys	Lys	Cys	Gln	Glu	Ala	Ile	Asn	Ala	Thr	Cys	Lys	Gly
		530		535		540									
Val	Ser	Tyr	Cys	Thr	Gly	Asn	Ser	Ser	Glu	Cys	Pro	Pro	Pro	Gly	Asn
		545		550		555									
Ala	Glu	Asn	Asp	Thr	Val	Cys	Leu	Asp	Leu	Gly	Lys	Cys	Lys	Asp	Gly
		565		570		575									
Lys	Cys	Ile	Pro	Phe	Cys	Glu	Arg	Glu	Gln	Gln	Leu	Glu	Ser	Cys	Ala
		580		585		590									
Cys	Asn	Glu	Thr	Asp	Asn	Ser	Cys	Lys	Val	Cys	Cys	Arg	Asp	Leu	Ser
		595		600		605									

Gly	Arg	Cys	Val	Pro	Tyr	Val	Asp	Ala	Glu	Gln	Lys	Asn	Leu	Phe	Leu	610	615	620
Arg	Lys	Gly	Lys	Pro	Cys	Thr	Val	Gly	Phe	Cys	Asp	Met	Asn	Gly	Lys	625	630	635
Cys	Glu	Lys	Arg	Val	Gln	Asp	Val	Ile	Glu	Arg	Phe	Trp	Asp	Phe	Ile	645	650	655
Asp	Gln	Leu	Ser	Ile	Asn	Thr	Phe	Gly	Lys	Phe	Leu	Ala	Asp	Asn	Ile	660	665	670
Val	Gly	Ser	Val	Leu	Val	Phe	Ser	Leu	Ile	Phe	Trp	Ile	Pro	Phe	Ser	675	680	685
Ile	Leu	Val	His	Cys	Val	Asp	Lys	Lys	Leu	Asp	Lys	Gln	Tyr	Glu	Ser	690	695	700
Leu	Ser	Leu	Phe	His	Pro	Ser	Asn	Val	Glu	Met	Leu	Ser	Ser	Met	Asp	705	710	715
Ser	Ala	Ser	Val	Arg	Ile	Ile	Lys	Pro	Phe	Pro	Ala	Pro	Gln	Thr	Pro	725	730	735
Gly	Arg	Leu	Gln	Pro	Ala	Pro	Val	Ile	Pro	Ser	Ala	Pro	Ala	Ala	Pro	740	745	750
Lys	Leu	Asp	His	Gln	Arg	Met	Asp	Thr	Ile	Gln	Glu	Asp	Pro	Ser	Thr	755	760	765
Asp	Ser	His	Met	Asp	Glu	Asp	Gly	Phe	Glu	Lys	Asp	Pro	Phe	Pro	Asn	770	775	780
Ser	Ser	Thr	Ala	Ala	Lys	Ser	Phe	Glu	Asp	Leu	Thr	Asp	His	Pro	Val	785	790	795
Ala	Arg	Ser	Glu	Lys	Ala	Ala	Ser	Phe	Lys	Leu	Gln	Arg	Gln	Asn	Arg	805	810	815
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<210> 8
 <211> 477
 <212> PRT
 <213> Homo sapiens

<400> 8

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Asn	Ile	Gln	Gln	His	Ser	Val	Arg	Lys	Arg	Asp	Leu	Gln	Thr	Ser	Thr	50	55	60	
His	Val	Glu	Thr	Leu	Leu	Thr	Phe	Ser	Ala	Leu	Lys	Arg	His	Phe	Lys	65	70	75	80
Leu	Tyr	Leu	Thr	Ser	Ser	Thr	Glu	Arg	Phe	Ser	Gln	Asn	Phe	Lys	Val	85	90	95	
Val	Val	Val	Asp	Gly	Lys	Asn	Glu	Ser	Glu	Tyr	Thr	Val	Lys	Trp	Gln	100	105	110	
Asp	Phe	Phe	Thr	Gly	His	Val	Val	Gly	Glu	Pro	Asp	Ser	Arg	Val	Leu	115	120	125	
Ala	His	Ile	Arg	Asp	Asp	Asp	Val	Ile	Ile	Arg	Ile	Asn	Thr	Asp	Gly	130	135	140	
Ala	Glu	Tyr	Asn	Ile	Glu	Pro	Leu	Trp	Arg	Phe	Val	Asn	Asp	Thr	Lys	145	150	155	160
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				165					170					175		
Arg	Leu	Gln	Ser	Pro	Lys	Val	Cys	Gly	Tyr	Leu	Lys	Val	Asp	Asn	Glu	
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Glu	Leu	Leu	Pro	Lys	Gly	Leu	Val	Asp	Arg	Glu	Pro	Pro	Glu	Glu	Leu	
			195				200					205				
Val	His	Arg	Val	Lys	Arg	Arg	Ala	Asp	Pro	Asp	Pro	Met	Lys	Asn	Thr	
			210			215					220					
Cys	Lys	Leu	Leu	Val	Val	Ala	Asp	His	Arg	Phe	Tyr	Arg	Tyr	Met	Gly	
225					230					235					240	
Arg	Gly	Glu	Glu	Ser	Thr	Thr	Thr	Asn	Tyr	Leu	Ile	Glu	Leu	Ile	Asp	
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Arg	Val	Asp	Asp	Ile	Tyr	Arg	Asn	Thr	Ser	Trp	Asp	Asn	Ala	Gly	Phe	
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Lys	Gly	Tyr	Gly	Ile	Gln	Ile	Glu	Gln	Ile	Arg	Ile	Leu	Lys	Ser	Pro	
			275				280					285				
Gln	Glu	Val	Lys	Pro	Gly	Glu	Lys	His	Tyr	Asn	Met	Ala	Lys	Ser	Tyr	
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Pro	Asn	Glu	Glu	Lys	Asp	Ala	Trp	Asp	Val	Lys	Met	Leu	Leu	Glu	Gln	
305					310					315					320	
Phe	Ser	Phe	Asp	Ile	Ala	Glu	Glu	Ala	Ser	Lys	Val	Cys	Leu	Ala	His	
			325						330					335		
Leu	Phe	Thr	Tyr	Gln	Asp	Phe	Asp	Met	Gly	Thr	Leu	Gly	Leu	Ala	Tyr	
			340					345					350			
Val	Gly	Ser	Pro	Arg	Ala	Asn	Ser	His	Gly	Gly	Val	Cys	Pro	Lys	Ala	
			355			360						365				
Tyr	Tyr	Ser	Pro	Val	Gly	Lys	Lys	Asn	Ile	Tyr	Leu	Asn	Ser	Gly	Leu	
			370			375						380				
Thr	Ser	Thr	Lys	Asn	Tyr	Gly	Lys	Thr	Ile	Leu	Thr	Lys	Glu	Ala	Asp	
385					390					395					400	
Leu	Val	Thr	Thr	His	Glu	Leu	Gly	His	Asn	Phe	Gly	Ala	Glu	His	Asp	
				405					410					415		